CONSOLIDATED INFORMATION TECHNOLOGY SERVICES TASK ASSIGNMENT (TA)

1. **TITLE:** (D211) Multi-media Visualization of Science & Engineering Data
   Maintenance Under Existing Task RFC025 - Advanced Engineering Environments Branch Lab Operations

SubTask No:	RFC025.03-Rev4	**SubTask Internal Control No:**	NONE
Task Area Monitor:		**Alternate Task Area Monitor:**	
NASA POC:			
Software Control Class:	LOW CONTROL	**Priority Level:**	ROUTINE
Type of Task:	Non-Recurring Task		

2. **BACKGROUND**

The key to understanding science and engineering data is to make that data available in environments that permit a wider use of knowledge and interpretation. Advanced multimedia capabilities available today make this the key to providing a knowledge management infrastructure. This task provides the basis for advanced, flexible communications and computing for knowledge management applications such as: multimedia briefings and reviews; virtual, multi-Center collaborative work processes; and information visualization and brainstorming. The strategy is to create an advanced, interconnected, open-standard multimedia and conferencing capability throughout Langley.

3. **OBJECTIVE**

The objectives of this task are:

a) Provide multimedia content visualization services as required to meet specific guidelines.

b) Provide the interface to the Video Services Team for video production for content developed under this task.

c) Perform new technology evaluations with the approval of the TAM and advise the TAM accordingly.

d) Perform other programming services, including executable scripts, to support general file

conversions, client graphics and visualizations needs.

e) Present technology animations and other digital content creation accomplishments at technical conferences for NASA-LaRC-DAIB advocacy.

4. MAINTENANCE REQUIREMENTS

None.

5. GENERAL IT SUPPORT SERVICES

General IT Support Services Performance Metrics

Performance Standard: Deliverables are made on schedule; and meet project requirements and acceptance criteria.

Performance Metrics:

Exceeds: All deliveries are made on or ahead of schedule. The system or application meets the TA requirements without exception. No anomalies are found during testing.

Meets: Any delays in delivery are minor and are made up within the overall schedule. Only minor deficiencies are found that are readily correctable within the development schedule.

Fails: A delivery is more than 1 week late or overall schedule has slipped by more than 3 weeks. Deficiencies are found that will result in significant delays to correct.

6. SYSTEM AND APPLICATION DEVELOPMENT SERVICES

None required.

7. WORK-AREA SPECIFIC SERVICES

Work Area Title: Multimedia Visualization of Science and Engineering Data

LaRC Manager:

Work Area Description: The contractor shall develop content in support of multimedia applications depicting engineering simulations.

Work Area Requirements: Significant numbers of walk-in clients are expected and work will be estimated on a per job basis. Statements of Work and Cost Estimates are provided to

clients and the TAM. Approval to proceed is pending agreement between client and the TAM.

Based on data gathered within the last year, this task is expected to support 5-10 production tasks a year. It is anticipated that in the coures of working these tasks, 5-15 textured geometry models will be produced. These tasks are can be accomplished in several weeks to several months time.

The contractor shall track and report costs (hours) for each customer task in the weekly hour report.

<u>Work Area Title</u>: Animation Library

<u>LaRC Manager</u>:

<u>Work Area Description</u>: An animation library/repository shall be created and maintained.

<u>Work Area Requirements</u>: All animations and renderings produced under this task shall be included in the library data.

<u>Work Area Title</u>: Hardware and Software Evaluations

<u>LaRC Manager</u>:

<u>Work Area Description</u>: The contractor shall perform evaluations of software and hardware that show potential to enhance the modeling and animation capability at LaRC. The tools to be evaluated will be identified by either the TAM or the Contractor. The TAM will specify a not to exceed cost for each evaluation undertaken.

<u>Work Area Requirements</u>: When evaluating software and hardware for use in performing work under this task, the Contractor shall assess the following features: capability vs. cost, data format requirements, adherence to data format standards, cross platform availability, ease of use, performance characteristics, customization options, and any hardware requirements/limitations. The results of the evaluation shall be reported to the TAM.

The Contractor shall track and report costs (hours) incurred in performing the work outlined in this section as one subtask in the weekly hour report.

8. Exhibit A

None required.

9. SPECIAL SECURITY REQUIREMENTS

None required.

10. SOFTWARE ENGINEERING PROCESS REQUIREMENTS

None required.

11. JOINT REVIEW SCHEDULE

Work products shall be reviewed monthly by the TAM and contractor personnel assigned to this task during this effort. Costing data with projections will be presented at that time.

12. PERIOD OF PERFORMANCE

This TA is effective from 04/01/04 to 04/27/10

13. TECHNICAL PERFORMANCE RATING

In evaluating Technical Performance, quality and timeliness shall be rated as follows: Quality will be evaluated by noting the reworks required for each multimedia segment from the as-delivered product. Quality will also be judged based upon client(s) written and verbal feedback.

Quality: 50%   Timeliness: 50%

14. RESPONSE REQUIREMENTS

Within two weeks from the receipt of this task assignment, submit a task plan to the TAM. This Task Plan shall address the contractor's lead personnel; specific work plans; and the associated estimated labor hours, cost and schedule.

15. FUNDING INFORMATION

Funding last submitted on 08/20/2009.

16. MILESTONES

None required.

17. DELIVERABLES

Number	Deliverable Item	Deliverable Schedule
1	Repository of visualizations and multimedia content developed under this task	1/31/09
2	CEOS content	1/31/09

18. FILE ATTACHMENTS

None.